# Food and Drug Administration Center for Food Safety and Applied Nutrition Office of Special Nutritionals

ARMS#

13226



3 - OUTPATIENT

() INPATIENT (X) OUTPATIENT

Attachment Page 50f CFSAN ARMS PROJECT 13266 3/5/99 GJH

Social: The patient was a student at the sophomore year as he was taking up a degree in education. The patient graduated from sports.

#### OBJECTIVE

Cognition: The patient is oriented to month and year but not to specific date.

Range of Motion: Right ankle with dorsiflexion deficits as follows: 12

degrees plantarflexion to 50 degrees plantarflexion active range of motion 
Remaining range of motion is within normal limits of bilateral upper extremities and lower extremities.

Motor Control: The patient presents with decreased right upper extremity supination, pronation, and intrinsic musculature of his right hand with positive tremors noted. The patient also with decreased right lower extremity motor control noted about the ankle with symmetric motor control about bilateral lower extremity hips and knees.

Tone: Increased right lower extremity tone about the ankle versus the lower extremity.

Lower Extremity Coordination: Decreased right lower extremity with alternating dorsiflexion and plantarflexion movements. Patient with symmetric and decreased lower extremity coordination with heel-to-toe, shin, and knee activities bilaterally.

Strength: Upper extremities: right upper extremity 4/5 triceps, 4/5 biceps, 4/5 shoulder. Left upper extremity presents at 4+/5 shoulder. Lower extremities: right hip flexion presents 4-/5, right hamstrings 4/5, 3+/5 right anterior tibialis, 2/5 right ankle eversion. Left lower extremity within normal limits. Grip strength: patient with decreased right grip strength versus left; this was not specifically tested this date.

Sensation: The patient presents with intact upper and lower extremity proprioception and kinesthesia tactile sense with all movements.

Balance and Posture: Patient with good sitting dynamic and challenged sitting balance. Standing balance with the following deficits: patient with decreased posterior balance with challenged activities and dynamically reaching posteriorly. Patient routinely loses his balance posteriorly with reaching activities and with challenged activities. Patient also noted with minimal hip and ankle strategies as well as slow stepping strategies noted with challenged and dynamic standing activities.

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Page 2

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() INPATIENT (X) OUTPATIENT

Attachment S Page Zof CFSAN ARMS PROJECT 13266 3/5/99 GJH

Sensory Interaction and Standing Balance: The patient is without vestibular complaints with the following testing. Eyes open on firm surface: patient is able to hold 30 seconds with bilateral lower extremities in standing without loss of balance noted. With single leg stance the patient is able to hold for 5 seconds on left and right lower extremity without loss of balance. Eyes closed on firm surface: patient is able to hold for 15 seconds with bilateral lower extremities in stance with increased mediclateral sway and decreased right lower extremity weightbearing noted. Upon single leg stance the patient on right lower extremity for 5 seconds and left lower extremity for 2 seconds without loss of balance. Eyes open on foam surface: patient is able to double leg stance for 10 seconds with increased posterior balance deviations noted. Patient only with 2 seconds with left lower extremity single leg stance noted with significant loss of balance. Eyes closed on foam surface: patient is unable to perform double leg and single leg stance.

Mobility: The patient demonstrates independence with all rolling and scooting in bed. The patient is noted with increased difficulty scooting supine versus rolling.

Transfers: The patient is independent with sit to stand and stand pivot transfers. With advanced transfers, the patient requires contact guard to minimum assistance of one for balance.

Ambulation: Patient utilizes a left straight cane and ambulates with standby assistance on level surfaces with the following gait deviations: decreased right knee range of motion, decreased right heel contact with increased foot drop noted with fatigue, and decreased right step length noted versus left. The patient occasionally increases right toe drag with increased fatigue. With quick steps the patient does not have any loss of balance. With quick turns the patient with occasional posterior loss of balance in four out of five attempts. With horizontal head movement the patient presents with increased gait deviations including toe drag and posterior deviating balance.

#### PHYSICAL THERAPY ASSESSMENT:

Behavioral Observations: Patient with a flat affect for 90% of the treatment session.

Strengths: The patient with memory and cognition as well as concentration strengths noted.

Weaknesses: 1) Decreased right lower extremity motor control greater than left lower extremity. 2) Patient with increased balance deficits upon standing and high level mobility. 3) Decreased independence with gait and increased reliance on cane or assistive device. 4) Increased gait

() INPATIENT (X) OUTPATIENT

Attachment <u>J Page 2 of 27</u> CFSAN ARMS PROJECT 13266

3/5/99 GJH

SHORT TERM GOALS: Please refer to the most recent Program physical therapy treatment records for short term goals.

LONG TERM GOALS: Maximize patient's functional independence, mobility, and safety, to return to prior activities including independent living.

PHYSICAL THERAPY RECOMMENDATIONS AND PLAN: Physical therapy plans to see the patient up to five times a week to increased independent mobility, balance, bilateral lower extremity motor control and safety with activities of daily living and mobility in the department and in the community.

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cc:

**Outpatient Rehab Sevices** 

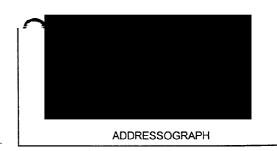
Unit #

Date: 2 19 99 Team Conference/	Progress Report
Attendees:  Occupational Therapy  Physical Therapy  Speech Therapy  Rehab Psych -	Vocational Rehab –  Therapeutic Recreation –  Physician –
Problems Identified: procenting ac	tive movement
Progress: Conimh	Attachment Z Page 1 of 54 CFSAN ARMS PROJECT 13266 3/5/99 GJH
Review of goals:	
Recommendations/Plan: 1-2 classely  A a low  A T S  Individual Treatment Recommendations: (Please indicate # of PSYCH 2)	,
Cognitive Skills Group Fitness Group	Alcohol and Other Drug Education & Prevention Vocational Group Outing Planning Group Outing (Community) Group



#### **PROGRESS NOTES**

Attachment <u>7 Page <del>2</del> of</u> CFSAN ARMS PROJECT 13266



DATE	3/5/99 GJH	REMARKS
PHYSICAL	MEDICINE & REHABILITATION	P-123 H+ 5111
2-11-99	PHYSICIAN	BP: 31/71 WT: 202#
	MEDICATIONS:	ALLERGIES: NX DA
16050	Mirapx 2.5mg	TIO
Now. W	5 7711	
Refer		61
•	REASON FOR VISIT: 1 Month	FIU
	REFERRING PHYSICIAN:	
7/1/99	Neuro Med Studen	
3:45pm_	S: 1940 (P) Landed 1	atino nole, E HO basal garflia
<u> </u>	infancts, 5 cfo NIV	, HA; only (10 (R), sided
	weakness in Land of	eg shaking on (R). Has PT & O Tonboos
	0: /3/71	91. 202 (B.P. Ht. 5'11"
	1 1 1 1 1 1	o dyparthia or
	CN'S II-XII infact c go	od sersat (B). Motor & Jersony
	functions infact & t.	strength in (R) exts upper of liver
	Reflexes 21 24	Coordination good FTN & HTS @
	2f J+	ν
	bat: some impaum	ent tardem sent in QLE.
	,	0
	A: U19410 M S/g Brad go	argua hemorrhages, improving
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	moreld as well coordination
	Pi (i) Mager O. Sig T	po 710 # 90 presculsed
	(3) Continue PT. # OT.	
	At seen a student	
	> Next I would be to	o 1/2 puls (the 0.5)
		000006

#### REHABILITATION SERVICES

#### OCCUPATIONAL THERAPY TREATMENT RECORD

KEY: N/A = Goal Not Addressed  * = Goal achieved; I = Improved  R = Reduced; U = Unchanged	Reporting Period 1-11-99 to 1-15-99	Reporting Period 1-18-99 to 1-22-99
MONTHLY GOALS	PROGRESS	PROGRESS
1. Improve sustained divided attention/concentration	Client demonstrated fair understanding of	I Client demonstrated fair-to-good
for completion of daily living & school-related asks	strategies to improve sustained attention and ways of modifying the environment.	understanding of strategies to improve sustained attention and ways of modifying the environment
2. Improve immediate and delayed auditory & visual memory of newly learned information for successful return to I living & school.		
	T Oli to the language of the state of the st	living & simulated job tasks.  I Client was educated regarding strategies to
3. Improve complex reasoning and problem solving abilities for successful completion of daily living and school-related tasks.		improve problem solving abilities and demonstrated fair-to-good understanding.
Improve organizational abilities for successful completion of complex daily living and school-related tasks.		I Client was educated regarding strategies to improve organizational skills and demonstrated fair-to-good understanding for successful completion of daily living & school-related tasks.
J. Improve oculomotor skills for successful return to safe driving and independent living.		I_Client demonstrated fair-to-good performance on standardized computer tasks requiring saccades, pursuits & scanning w/moderately reduced rate of visual processing speed.
6. Improve dynamic balance in standing for safe completion of daily living t& school-related asks.	LClient demonstrated fair dynamic balance in standing for completion of daily living tasks.	* Client demonstrated fair =to-good dynamic balance in standing for completion of daily living tasks.
7. Improve independence in advanced transfer skills.	Client required moderate assist to complete advanced transfers.	*_Client required moderate=to-minimal assist to safely complete advanced transfers.
8. Improve independence in home management skills for successful return to independent living.	I_Client required moderate verbal cueing to complete home management tasks which required money management skills.	I Client required moderte-to-minimal verbal cueing to complete home management tasks in the area of meal planning.
Improve safety & independence for community mobility.		Client required SBA for community mobility.
10. Assess pre-driving abilities	_N/A	_N/A
11. Improve client knowledg of home exercise program to improve normalization of postural tone/alignment/control.	I Client demonstrated fair understanding of home exercise program to improve postural tone/alignment/control.	I_Client demonstrated fair-to-good understanding of home exercise program to improve postural tone/alignmentcontrol.
12. Improve B U/E strength for successful return to I living and work	Client demonstrated moderately reduced R upper extremity strength.	Client demonstrated mildly reduced R upper extremity strength.
13. Improve B U/E fine motor coordination for accessful completion of daily living and school-clated tasks	I_R U/E fine motor coordination skills were severely-to-moderately reduced.	_ I _R U/E fine motor coordination skills were mioderately reduced.
14. Improve adaptation to disability		I Client demonstrated fair adaptation to losses in previous roles and adjustment to new roles.
15. Improve knowledge re: negative cumulative effects of alcohol & strategies to maintain abstinence from alcohol s/p	IClient was educated re: the negative cumulative effects of alcohol & & & & demonstrated a fair understanding of this information.	*Client denibstrated a fair=to-good understanding of negative cumulative effects of ETOH &
Plan	X Continue Treatment per Plan of Care Modify Plan of Care D/C Treatment,	X Continue Treatment per Plan of Care Modify Plan of Care D/C Treatment
Signature		

Attachment Page of OFSAN ARMS PROJECT 13266 3/5/99 GJH

#### REHABILITATION SERVICES

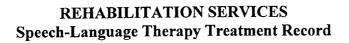




Attachment Z\_Page <del>Y</del> of \_\_\_ CFSAN ARMS PR: DJECT 13266 3/5/99 GJH

KEY: N/A = Goal Not Addressed  * = Goal achieved; I = Improved R = Reduced; U = Unchanged	Reporting Period 2/1/99 to 2/5/99 .	Reporting Period 2/8/99 to 2/12/99
MONTHLY GOALS	PROGRESS	PROGRESS
Thought organization for verbal expression of complex ideas with min. to mod. Cues for specificity.	I Good thought organization for expression of personal ideas (family), however, mod cues for generation of ideas for subjects not related personally to the consumer (eg. Death penalty). Continued flat affect and reduced prosody.	U Consumer continued to require moderate cues for expansion of generated opinions re: complex issues. Affect has improved minimally.
Reading comprehension for multi-paragraph length extbook material 80%	R 55% (5/9) for responding to openended questions re: H.S. history textbook material. Slow scanning for information. Independent use of highligher noted.	1 70% (7/10) for responding to openended questions re: H.S. history textbook material. Improved scanning time, although still slow.
Functional math word problems 90% with min. assistance.	* 90% (9/10) for independent completion of functional math word problems. Goal met and discontinued.	N/A Goal met and discontinued.
Functional attention and information processing skills for return to school.	No difficulty noted with accuracy for completion of a complex visual decoding task in the presence of auditory distractors.  Processing time was slow, however.	R 67% (6/9) for responding to questions re: an informative chart. Reduced attention to detail.
Immediate and delayed (10-20min.) memory for complex daily living and educational information with use of strategies.	* Overall 95% for immediate and delayed (15 min) free recall of moderately complex classroom instructions with independent use of notes and requests for repetition and clarification.	R 89% overall for immediate free recall of facts from a verbal paragraph. Immediate cued recall at 40%. Delayed (15 min) free recall was at 89%, while delayed cued recall was only 17%.
Production of correct stress and intonation patterns for structured sentence length material 90%.	N/A Not a goal at this time.	1 88% (15/17) for distinguishing and producing correct intonation patterns for statements vs. questions. Stress patterns 73% (8/11) for responding to clinician questions.
Planning/organization for complex daily living/educational tasks 90% and/or min. to mod. assistance.	Consumer required moderate cues for execution and organization of lesson plans for teaching the clinician Spanish. Lesson brief with minimal explanations. Cues required for generating next steps.	I Improved planning and carry-through of lessons for clinician, with reduced need for cues to generate next steps. Mild difficulty with progression of lesson content. Consumer improved performance on a visual organization task from 57% (4/7) to 100% (8/8) when he independently utilized recommended strategy of double checking his work.
Education Provided	Reviewed compensatory memory strategies, with excellent consumer comprehension and carry-over	Educated consumer re: stress and intonation patterns in language, and their effects on meaning and communication. He demonstrated good comprehension.
Comments	To begin working on goal to address improvement of stress and intonation.	Consumer appears motivated and is prepared for tx sessions (has Spanish lesson prepared, homework completed). He actively participates in all tx. tasks.
Plan	Modify Plan of Care	Continue Treatment per Plan of Care
Signature		

	Name:
Outpatient Rehab Sevices	Unit #:
	D.O.B.:
Date: 2/5/99 Team Confere	ence/Progress Report
Attendees: Occupational Therapy Physical Therapy	Vocational Rehab –  Therapeutic Recreation –
Speech Therapy –  Rehab Psych	Physician -
Problems Identified:	Attachment Z Page 5 of CFSAN ARMS PROJECT 13266 3/5/99 GJH
Progress: Grims in most	ansas
Review of goals: Return to nation	
Recommendations/Plan: Rythemer butter; bach. stul flat affect, &	Y intested
Individual Treatment Recommendations: (Please indicated 2-32 PSYCH	te # of times/wk)  2-3x/wl SP TR  /x/wk_VOC
Group Treatment Recommendations:	
Adjustment to Disability Group  Cognitive Skills Group  Fitness Group  Leisure Group	<ul> <li>Alcohol and Other Drug Education &amp; Prevention</li> <li>Vocational Group</li> <li>Outing Planning Group</li> <li>Outing (Community) Group</li> </ul>
Estimated length of time in the program: 4 to U	ckr
Prepared by:	
	000009



ADDRESSOGRAPH

Outpatient

:	REPORTING PERIOD	REPORTING PERIOD
SHORT TERM GOAL	January 14, 1999	January 20 & 21, 1999
	Progress	Progress
Thought organization for verbal expression of complex ideas with min. to mod. cues for specificity.	75% for independently expressing pro's/con's; 90% with mod cues to	Did not address; although discussed need to expand when conversing with people versus given 1-2 word responses tends to demonstrate more responsive speech than propositional.
Reading comprehension for multi- paragraph length textbook material 80%	90% for multiple paragraphs	4 paragraphs from a college textbook at 80%
Functional math word problems 90% with min. assistance.	42% independent for simple story problems, with mod-max cues, pt at 100% accuracy.	90% for simple story problems (up from 42%)
Functional attention and information processing skills for return to school.	Did not address	Sustained/selective attention at 90%
Immediate and delayed (10-20min.) memory for complex daily living and educational information with use of strategies.	Did not address	Immediate memory for simple telephone messages utilizing compensatory strategies at 60% demonstrated slow information processing for note taking and mildly-moderately reduced ability to select relevant versus irrelevant information
Planning/organization for complex daily living/educational tasks 90% and/or min. to mod. assistance.	Looking up info in the phone book at 100% independent; however, his speed of information processing was significantly impaired	Did not address
Attachment / CFSAN ARM 3/5/99 GJH	Briefly reviewed result with pt and his mother.  Page of S PROJECT 13266	Mrs requested an in depth explanation of test results. Spent 40 minutes reviewing all tests, rationale of those chosen, performance and implications for independent living/return to academic career. Mrs. verbally acknowledged comprehension and asked appropriate questions. reported that he understood, but his understanding is questionable.
COMMENTS	insight is limited	Pt only seen 2 times this week due to MLK holiday.
PLAN	Continue with tx per care plan	Continue with tx per care plan
Speech-Language Pathologist		

### REHABILITATIO SERVICES

## OCCUPATIONAL THERAPY EVALUATION FORM

Name:	
D.O.B.	
Clinic #	ADDRESSOGRAPH

CONSUMER INFORMATION Evaluation Date: 1910 Age: 1910	Referring M.D.:
Diagnosis: Exceptatopathy.	
Medical History: /94/0 hisporic & four College down: was a his	for shorely year at
to 1248/98; MRI slav Level Commonication: N'2 initiation	weed & Usions (6) basal gangles + ( hippocampus & C) piroven bicular plevious L victoral XX.
Level of Independence Prior to Injury: (2)- Vocational Background Worked as Is  How ball Honey 2 grs; und Educational Background Soptions as	reports average grove
Current Living Situation: Level in Pour Spring C Soulsts & 2 man 25 yes brother in	su or compuse 4 friends; non surfers our 14 + 1/6 y/o;
Hand Dominance: (P)  Tests Administered:	
Digit Span  Random Letter Recognition Block Tapping	Attachment Z Page Z of CFSAN ARMS PROJECT 13266 3/5/99 GJH
<ul><li> Modified Stroop</li><li> Contextual Memory</li><li> Hopkins Verbal Learning</li><li> Visual Fixation</li></ul>	
<ul> <li>King Devick</li> <li>Motor Free Visual Perception</li> <li>Imitations of Posture</li> <li>Sequence of Posture</li> </ul>	
Sequence of Posture Manual Muscle Nine Hole Peg Stereo Vision	
I. Activities of Daily Living A. Self-Care: 1. Dressing:	
2. Hygiene: 3. Eating: Do W Co Chu 6. Bathing Showering: Rug Choose 5. Medication Management. 3.	Je foxofix in fout of tub.
6. Health Maintenance:	000011
C. Transfers: Reg.  D. Community Mobility: Reg.	
E. Sexuality: N/A	·

F. Home Management:  1. Meal Planning Preparation: Dc cold nest prep.	; dep- more odvorced.
2. Shopping:	
3. Money Management:	
4. Household Maintenance: Lup.	V 2.7
G. Parenting: N/A	<b>2</b>
H. Driving: Dep.	
II. Sensorimotor Functioning:	1
Neuromusculoskeletal:   Hroughout (P) Remitor	<i>l</i> ,
A. Postural Tone: A & Victoria Con Tempor	d .
B. Bostural Alignment Lits in a PPT & V d upper Ha	Table out is forward
led able to assure alianes port	C. CHILLY.
C. Postural Control: Unable to laterally withinst of	it (2) or Poside . able
to actively whate upper trust on lower	trusk able to (A) dissocia
D. Myofascial Tightness: (B) Shoulding & nick.	B) Acapulal.
E. U E Range of Motion: WPL in (B) A PROM	
11+1-110, 1 + 61/10: 11-1-11	1. + (2) 110
F. Strength: 47/5 Hebustont (40E; 4-15 Herou	grow QUE.
C Crin Strangth (1) LATE (BAK) (2) 177 TE (BAK)	
G. Grip Strength: (BNC) (BNC) (BNC) H. Endurance: Takeli a map 2x day.	
H. Elidulance. 10-13-50 W 70-13-50 W 70-13-5	
Motor: (a) 11 - 110 (1. 4ho)	
A. Fine Motor Speed/Dexterity: 45 Alc. (10170)	
(W) 35 plc - (V/04h 70)	
B. Balance:	Attachment 7 Page 8 of
1. Sitting	CFSAN ARMS PROJECT 13266
a. Static:	3/5/99 GJH
b. Dynamic: WHZ	<del></del>
2. Standing a. Static: WFL	
b. Dynamic: F,	
C. Functional Mobility: and water c SBA using	straight core.
	$\mathcal{O}$
D. Adaptive Equipment: Atrack Core, Fub our	I while walker,
B/S Commode.	
Sensory:	<u> </u>
A. <u>Sensation</u> :  1. Tactile:WWL,	
O Description "///	
3. Vestibular:	
4. Vision:	<u></u>
Corrective Lenses: Yes	No
a. <u>Visual Acuity</u> :	•
1. Distance Vision: QQ - 1 ( Q A)	
1. Distance Vision: 2040 (BNC) Both Eyes:	-
1. Distance Vision: QOAO (BNC)  Both Eyes: 20 50-1 (BNC)	-
1. Distance Vision: QO/40 (BNC)  Both Eyes: 30 50-1 (BNC)  Left Eye: 30 100 (BNC)	
1. Distance Vision: QO/40 (BNL)  Both Eyes: 30 50-1 (BNL)  Left Eye: 30 100 (BNL)  2. Near Vision: 70 / (BNL)	
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  20/40  (BNU)  (BNU)  (BNU)  (BNU)	
1. Distance Vision: QO/40 (BNL)  Both Eyes: 30 50-1 (BNL)  Left Eye: 30 100 (BNL)  2. Near Vision: 70 / (BNL)	
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Solido (BNL)  2. Near Vision:  Both Eyes:  Both Eyes:  Right Eye:  Left Eye:  20/40 (BNL)  And Solido (BNL)  And Solid	
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  20 100 (BNL)  Right Eyes:  Both Eyes:  Both Eyes:  Right Eye:  Left Eye:  20 40 (BNL)  Right Eye:  Left Eye:  20 40 (BNL)  Right Eye:  20 40 (BNL)  Both Eyes:  Right Eye:  20 40 (BNL)  Both Eyes:  20 40 (BNL)  Both Eyes:  Right Eye:  20 40 (BNL)	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  Both Eyes:  Both Eyes:  Both Eyes:  Pright Eye:  And And BNC  Both Eyes:  Right Eye:  Left Eye:  Do / 40 (BNC)  b. Peripheral Vision:  1. Confrontation Testing:	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  Both Eyes:  Both Eyes:  Right Eye:  Peripheral Vision:  1. Confrontation Testing:  Upward:  WFL	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  20 100 (BNC)  2. Near Vision:  Both Eyes:  Right Eye:  Peripheral Vision:  1. Confrontation Testing:  Upward:  Upward:  Downward:	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  Right Eye:  Both Eyes:  Right Eye:  Dollo (BNL)  20/40 (BNL)  b. Peripheral Vision:  1. Confrontation Testing:  Upward:  Upward:  Upward:  Inward:	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  20 100 (BNC)  2. Near Vision:  Both Eyes:  Right Eye:  Peripheral Vision:  1. Confrontation Testing:  Upward:  Upward:  Downward:	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  Right Eye:  Both Eyes:  Right Eye:  Dollo (BNL)  20/40 (BNL)  b. Peripheral Vision:  1. Confrontation Testing:  Upward:  Upward:  Upward:  Inward:	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  2. Near Vision:  Both Eyes:  Right Eye:  AD 50-1 (B NL)  Left Eye:  20 40 (B NL)  Both Eyes:  Right Eye:  AD 50-1 (B NL)  Left Eye:  20 40 (B NL)  Both Eyes:  Right Eye:  AD 40 (B NL)  Both Eyes:  Right Eye:  AD 40 (B NL)  Both Eyes:  AD 40 (B NL)	000012
1. Distance Vision:  Both Eyes:  Right Eye:  Left Eye:  Near Vision:  Both Eyes:  Right Eye:  Both Eyes:  Right Eye:  Dollo (BNL)  20/40 (BNL)  b. Peripheral Vision:  1. Confrontation Testing:  Upward:  Upward:  Upward:  Inward:	000012

#### REHABILITATIC SERVICES

### OCCUPATIONAL THERAPY EVALUATION FORM

D.O.B

Clinic Addressograph

2. Ability to perceive two visual inputs simultaneously, one in each hemisphere: Attachment Page of CFSAN ARMS PROJECT 13266 c. Oculomotor Control: 1. Alignment: 2. ROM: WFL- mild jerky 3/5/99 GJH 3. Convergence: WFL 4. Saccades: mildly reduced 5. Pursuits: mildly 6. Scanning: UP 7. Visual Processing Speed: <u>al.9 + 19.8 + 34. φ</u> B. Perception: 1. Visual Perception Depth Perception! III. Cognitive Functioning: A. Orientation: Oriented to person, place, day and date, and purpose for testing and treatment Functional: Oriented to person, place, month, day and year but not date Reduced: Unable to recall basic historical facts. Confused regarding past personal Non-functional: information. B. Attention/Concentration (Selective): Independently performs tasks requiring the ability to choose the relevant stimuli Functional: while simultaneously suppressing the irrelevant stimuli Attention is functional for short tasks with structure and minimal distractions Reduced: Non-functional: Maximal structure and/or cueing required to attend to task

C. Attention/Concentration (Sustained): Muldly Muldle for would fauditory

Functional: Independently performs tasks requiring prolonged attention and concentration Attention is functional for short tasks with structure and minimal distractions Reduced: Non-functional: Maximal structure and cueing needed to attend to tasks D. Attention/Concentration (Divided): Independently shifts attention required for competing tasks Functional: Reduced: Attention is functional for competing tasks Maximal structure and cueing needed to attend to competing tasks Non-functional: E. Visual Memory-Immediate: Moderately reduced.

Functional: Independently recalls newly learned visual information. Recalls general ideas from newly learned visual information with cues. Reduced: Unable to recall or recognize previously presented visual information. Non-functional: red: My furactury Reduced.
Independently recalls visual information following at least a 10 minute delay F. Visual Memory-Delayed: Functional: Recalls general ideas from visual information after delay but required cues Reduced: Unable to recall or recognize previously presented visual information with delay Non-functional: G. Auditory Memory-Immediate: Independently recalls newly learned auditory information. Functional: 000013 Recalls general ideas from auditory information with cues. Reduced: Unable to recall or recognize previously presented auditory input. layed: Non-functional: H. Auditory Memory-Delayed: Independently recall auditory information following at least a 10 minute delay. Functional: Recalls general ideas from auditory information after delay but requires cues Reduced: Unable to recall or recognize previously presented auditory information with delay. Non-Functional: I. Basic Problem-Solving/Reasoning: Independently solves vocational/educational/daily living tasks. Functional: Generates solutions to vocational/educational/daily living tasks but requires cues Reduced:

Non-functional:

Unable to generate solutions to vocational/educational/daily living tasks

	olving/Reasoning: Rulaly belauced
Functional:	ependently solves complex vocational/ed tional/daily living tasks.
Reduced:	nerates solutions to complex vocational/eational/daily living tasks with cues
Non-functional: K. Organization/Seque	Unable to generate solutions to complex vocational/educational/daily living tasks
Functional:	ncing: Mildly Llduced. Independently sequences complex thoughts and subsequent tasks in organized
Turictional.	manner.
Reduced:	Able to sequence basic thoughts and subsequent tasks in organized manner with
Non-frankismali	cues Unable to sequence basic thoughts/tasks
Non-functional: L. Executive Functioning	
Functional:	Independently plans, initiates, and carries out complex tasks, as well as monitors
Reduced:	own performance.  Able to plan, initiate, and carry out basic tasks, but requires cues for complex
(	tasks and self-monitoring
Non-functional: M. Insight:	Unable to plan, initiate, and carry out a task. Unable to self-monitor
Functional:	Able to recognize own physical/cognitive/psychosocial strengths and limitations
Reduced:	Able to recognize own strengths and limitations with cueing
Non-functional:	Unable to recognize own strengths and limitations
IV. Psychosocial Skills A. Adjustment to Disability:	epots difficulty to adjusting to loses
in previous	hollo + vadaption to new Notes.
B. Interpersonal Skills:	music vigilia la la la
C. Behavioral Impressions:   V. Leisure Interests	1 11 00 - 1 lang work
v. Leisure interests Box	ketball, pool, voroz.
Consumer Goals: "4	get bock to school to graduate & ecome a transfer !
L	ecome a scocker "advanced transfers + suffer; SBA for community mobility; dep. in next tasks in the areas of nest planning/pre, y management, + dribers; Ald postural
Impressions Churt su	shited comodiacp. or wit mulitime in
SBA for basic tr	anotio; 30 th for community med organical pre
home manager	rest tasks in the areas of the
shopping none	y management, & driberz; Md postural
Jane Hrougho	(E) TOTAL TOUR AND THE TOUR TOUR TOUR
reduced pasty	int control , onyo fascial Lightness in
skoulder sundle	5; BUE withness (@ 10); impaired fire
in to speed	Sixtente in 6) UE'S (R) G); Fdyranice
Laborate Sin Offi	andire aprovated gait pattern impaired
orana in the	mount accute; meldly impaired oculo noto
Recommendations:	of in areas of: Rom, sacrades, pursuits + more
andel	soin speed, reduced depth perception, and
Inild	to moderately reduced surtained + devided
Henr	tion, immediate of delayed visual of delayed
	on menous; comply heavours/problem
	+ orasination + enstroral labelitic
	12 il Divilla & adjusters to describe.
1) napinise success	
mco Works Program 2 / /	this auction fulliture to sure of
Occupational Therapist	_ Date // 8/99_
	And I was 7 December of

000014

Attachment 7 Page of of CFSAN ARMS PROJECT 13266 3/5/99 GJH

ADDDRESSOGRAPH

#### SPEECH-LANGUAGE EVALUATION

Dates o	f Eva	luation	ı: 1/7/99 and 1/1/99	Physicians:	1
Diagno	sis: er	ncephal	opathy	<u>Han</u>	dedness: Right
4-1 4-	panci		Mr is a 19 y.o. male who was found unresponded and was then transferred to hepatitis, acute renal insufficiency, Rhabdomoly on 12/9/98, where he received therapies until	Mr. was diagnose was diagnose was upper or preed, and hypol	8. There was blood evident on the floor. He was d with diabetic ketoacidosis, altered mental status kalemia. He was admitted to revious medical history is apparently not
history lived in	of lead a hou Chai	rning puse clos	is a sophomore at the roblems or special classes. At school, Mr. et o campus with 2 other friends. He is current since the illness include talking valuation, noted that he is less conversive and do	worked as equipment manager by residing with his parents and s slower, and reduced right han	ation. He reports getting A's and B's. There is no r for the football team. Prior to his illness, he d 2 younger sisters. He also has one older and control (shaky). Mr.
Function	onal C	Commu	inication Status prior to evaluation:		Attachment Page/of CFSAN ARMS PROJECT 13266 3/5/99 GJH
<u> X</u>	N	o prior revious	therapy for this diagnosis treatment rendered	12/10-12/31/98	
Tests A	dmin	istered	: (Selected Subtest-S) (Entire test - X)		
S S X	<del></del>	1	Scales Of Cognitive Ability For Traumatic Brain Test of Everyday Attention (TEA) Informal measures of functional language and co		
			COMMUNIC	ATIVE FUNCTIONING	
Audito R R R R R R R R R R	N N	NA NA NA NA	Personal yes/no questions Complex yes/no questions Simple commands/instructions Complex commands/instructions General Conversation Spoken paragraph length information	Comments:	Rehab Report
Expres	sive L	angua	<u>ge</u>	Comments:	
ORR RR RR I	N N N N	NA NA NA NA NA	Automatic Speech Word Finding/Retrieval Sentence Production Conversation Complex thought organization		
Pragm	atics				
I DO R R R R	N N N	NA NA	Initiation of conversation Facial expression Eye contact Turn taking Topic maintenance Prosody		

#### **SPEECH-LANGUAGE EVALUATION - Page 2**

Oral Motor Skills: X WNL Reduced Dysarthria	Apraxia Dysphagia
Comments:	
Voice: WNL X Reduced	
Comments: Reduced intensity and quality noted, although it reportedly has impa quiet 1:1 environment.	was an inpatient. Intelligibility is WNL for
Intelligibility: X WNL Reduced at the word/sentence/conversation	on level.
Reading Comprehension: X Glasses/contact lenses Visual field	cut/neglect (R/L)
Reading Comprehension: X Glasses/contact lenses Visual field  I R N NA Tracking/scanning of printed information  D R N NA Sentences  I R N NA Paragraphs I R N NA Multiple paragraphs I R N NA Inferential material	Comments: slow scanning time
Written Expression: Copies X Formulates X Preferred F	andNonpreferred Hand
I R N NA Visual-Spatial organization I R N NA Signature I R N NA Words I R N NA Sentences I R N NA Paragraphs I R N NA Legibility I R N NA Spelling I R N NA Syntax/Grammar	Comments: Speed and legibility reduced due to tremors in preferred right hand.
<del></del>	Mode: Verbal <u>x</u> Written
R N NA Addition (1-2 digit/3-4 digit) R N NA Subtraction (1-2 digit/3-4 digit) R N NA Multiplication (1-2 digit/3-4 digit) R N NA Division (1-2 digit/ 3-4 digit) R N NA Functional math word problems	
Comments:	
Behavioral Style:	
Alert Appropriate Agitated Delayed Responses Impulsive Labile Lethargic Perseverative Reduced Initiation Reduced Insight	Attachment Page/2of_ CFSAN ARMS PROJECT 13266 3/5/99 GJH
Uncooperative	000046



#### SPEECH-LANGUAGE EVALUATION - Page 3

#### COGNITIVE FUNCTIONING

Attention/ConcentrationIntact::	Independently performs tasks requiring prolonged attention and		
concentration X Reduced: Non-functional:	Attention is functional for short tasks with structure and minimal distance Maximal structure and cueing needed to attend to tasks	actions	
X Reduced Re	Independently shifts attention from task to task Requires cues to shift Unable to shift attention dependently divides attention between tasks requires cues to attend to more than one task let to attend to only one task at a time	Attachment <u>J Page 3 of</u> CFSAN ARMS PROJECT 13266 3/5/99 GJH	
Orientation  X Intact:: Reduced: Oriented Non-functional:	Oriented to person, place and purpose for testing and treatment	ut not	
Memory-Remote X Intact:: Reduced: information. Non-functional: Could Not Test	Adequate recall for general information, historical and past personal General recall, but reduced in detail. May have gaps in recall of past Unable to recall basic historical facts. Confused regarding past perso		
Memory-Recent Intact:: X Reduced: Non-functional: Could Not Test	Accurately recalls day-to-day information, as well as details from connection Recalls general ideas form auditory/visual input at the		

Comments: Performance on the TEA revealed scores below the mean for Mr. age group in the areas of auditory selective attention, visual shifting attention, visual scanning, divided attention, and sustained attention. Administration of the Recall and Reasoning subtests of the SCATBI yielded a severity score of 11 on a scale from 3 to 17. This is considered mild. On the AVLT, scores were one SD below the mean for students on all 5 trials. Performance did improve with repetition, and did not decrease following a distractor.



Impressions: Primary language abilities were not assessed due to the speech evaluation from a bilities to be functional. During the evaluation, however, verbal expression appeared to be reduced for thought expression, with numerous pauses to "search" for words, and some self corrections and re-wording. Cues were required for Mr to expand upon and explain his responses as they were often vague. Vocal intensity was reduced, however, intelligibilty was functional for a quiet environment. Affect and facial expression were significantly limited. Minimal initiation of conversation noted. Reading comprehension was reduced for multiparagraph material, and for inferential material. Written expression was slow and labored, with poor to fair legibility due to tremors in Mr. preferred right hand. He is apparently on medication to control the tremors, but it does not seem to be effective.. Content of writing revealed reduced spelling and punctuation. Premorbid writing abilities unknown at this time. Calculation skills were intact for 3-4 digits, however, reduced for word problems.

Cognitively, Mr. demonstrated deficits in the areas of selective auditory attention, speed of visual scanning, immediate and short term memory, and reasoning/problem solving. Basic organizational skills were intact, however, complex organization skills were not assessed. Executive functioning skills also not assessed due to time constraints.

Communication Prognosis: Prognosis for improvement of cognitive-communicative skills for return to school is fair to good, given the consumer's age and fairly high level of functioning. Insight into strengths and needs is reduced, however.

is an appropriate candidate for the Recommendations: Mr. Participation in cognitive and planning/outing groups is also recommended. He would benefit from individual speech therapy 3x/wk,.

#### Long Term Goals: (8-12 wks.)

1. Consumer/family education re: brain injury and sequelae, consumer strengths and needs, tx. Progress, strategies and recommedations.

1/12/99 Date

2. Improvement of cognitive-communicative skills to a level commensurate with premorbid skills and residual abilities.

Copies: Medical Records

Clinician's File

**Business Office** 

Attachment Z Page/4 of CFSAN ARMS PROJECT 13266 3/5/99 GJH

#### REHABILITATION SERVICES

#### PHYSICAL THERAPY TREATMENT RECORD

	n 42 n 43	Reporting Period
KEY: N/A = Goal Not Addressed	Reporting Period 1 <del>2/28/98</del>	1/11/99 to 1/18/99
* = Goal achieved; I = Improved	1 11 199	
R = Reduced; U = Unchanged  MONTHLY GOALS	TO BE ADRESSED BY	PROGRESS
1.Pt will improve endurance to tolerate five	aero-dyne bicycle, overhead pulleys, UBE,	I Pt is currently able to tolerate 10 min on
hours of activity with minimal rest breaks to	treadmill (with SBA) to increase as tolerated,	the stationary bike, 10 min on the treadmill
increase independent living situations.	and variety of standing exercises.	and 30 min of other activities without
	Civilian deliberation and demands according	complaints or difficulties.  I Pt is ambulating during therapy without an
2.Pt. will improve balance upon standing to perform normal activities of daily living	Standing challenged and dynamic reaching exercises. Utilization of foam and variety of	assistive device without difficulty. On the
with out loss of balance and with out use of	surface textures. Performance of multiple	treadmill, he is able to walk with 1 UE
assistive device to increase independence	reaching exercises without UE balance	support and good balance. On foam, pt has
with independent living.	assistance. Advance double to single leg as	min difficulty maintaining balance with activities.
3.Pt. will be able to ambulate independent of	able.  Gait with st. cane to progress to without	As above, will begin ambulating on other
assistive device on variety of surfaces with	device on levels, foam, unlevel surfaces.	surfaces without assistve device.
ut loss of balance to promote independence	Treadmill as able. Also stairs to increase as	
of mobility in community.	tol. with deceased use of UE support.	U Pt was noted to engage in activities with
4. Pt. will demonstrate independent safety awareness skills for independence in	Challenged and new environmental situations with balance and mobility	decreased safety awareness, for example he
community with out caregiver assistance	training. Interaction with staff and peers for	tried to pick up a chair and move it but began
required.	group task activities.	to lose his balance. When he was
		reprimanded he said that he was strong enough to move it. He continues to need min
		assisstance reasoning through activities
		also.
5.Pt. will be able to ambulate community	Pre-gait exercises in parallel bars to advance	<u>_N/A</u>
distances with improved gait mechanics to increase safety and efficiency of mobility.	gait without device. Right ankle proprioceptive input closed chain exercises	
increase safety and efficiency of moonity.	to increase as tol	
Education Provided	Pt was oriented to Physical Theapy program	Pt was educated on the significance of safety.
	this date. Pt was also oriented on what areas	Pt was also advised on the importance of focusing on what his feet are doing when he
	of function would be worked on in PT, and pt understands and was in agreeance. Further	is walking, reminding himself to pick up his
	education of home program will be done in	feet so that he does not trip.
	the future.	
	De this data by Dhysical Thomasiat	Pt tolerated therapy without complaints. He
Comments	Pt was seen this date by Physical Therapist for initial evaluation. Please refer to it for	is rather quiet and speaks only when spoken
	further details and for long term goals. Pt	to.
	will be followed by PTA, and reassessed by	1
	Pt to be seen 4 times a week for activities to	Pt to continue toward goal achievement 3-4
Plan	achieve above goals.	time per week.
Signature		
L		

Attachment Z Page of CFSAN ARMS PROJECT 13266 3/5/99 GJH



() INPATIENT (X) OUTPATIENT

#### PHYSICAL THERAPY EVALUATION

Attachment Page of CFSAN ARMS PROJECT 13266 3/5/99 GJH

PHYSICAL THERAPY EVALUATION

DATE OF BIRTH: August 23, 1979.

REFERRAL SOURCE:

HISTORY: The patient is a 19-year-old, Hispanic male found unresponsive in his college dorm room status post diabetic ketoacidosis episode on November 7, 1998, with ischemic hippocampal injury. The patient reports an initial 3-1/2 week stay at before discharge to the on December 4, 1998. The patient was discharged home pn December 31, 1998. The patient has a past medical history positive for multiple right ankle sprains with the last being two years ago. Also history of L2 fracture around four years ago and the patient was in a back brace for six months.

#### SUBJECTIVE

Goals: The patient states that his goals are to be able to walk better without a device, to be able to run, and to be able to write better.

Strengths: The patient states his strengths are his memory and his ability to move in bed and transfer.

Weaknesses: The patient reports his right lower extremity and balance are primarily deficits which cause decreased independent walking ability and difficulty with writing.

Pain: The patient has zero complaints of pain with all mobility this date. The patient verbalizes he has occasional back pain with high level activities.

Fatigue: The patient states that he has fatigue with increased periods of time sitting as he takes two to three naps a day which last about one-half to one hour long.

Attention: The patient states he has zero deficits in his attention.

Concentration: The family reports the patient's concentration is decreased from prior to diabetic ketoacidosis incident.

Memory: The patient verbalized he has good memory as he is able to recall three out of five of his class load at the prior to this incident.

Reaction Time: The patient states his reaction time has decreased significantly with his upper extremities and lower extremities. 000020

() INPATIENT (X) OUTPATIENT

Attachment <u>J Page/J of</u> CFSAN ARMS PROJECT 13266 3/5/99 GJH

Social: The patient was a student at the in his sophomore year as he was taking up a degree in education. The patient graduated from sports.

OBJECTIVE

Cognition: The patient is oriented to month and year but not to specific date.

Range of Motion: Right ankle with dorsiflexion deficits as follows: 12

degrees plantarflexion to 50 degrees plantarflexion active range of motion.

Remaining range of motion is within normal limits of bilateral upper extremities and lower extremities.

Motor Control: The patient presents with decreased right upper extremity supination, pronation, and intrinsic musculature of his right hand with positive tremors noted. The patient also with decreased right lower extremity motor control noted about the ankle with symmetric motor control about bilateral lower extremity hips and knees.

Tone:  $I_{\vec{n}} \in \mathcal{E}$  eased right lower extremity tone about the ankle versus the left lower extremity.

Lower Extremity Coordination: Decreased right lower extremity with alternating dorsiflexion and plantarflexion movements. Patient with symmetric and decreased lower extremity coordination with heel-to-toe, shin, and knee activities bilaterally.

Strength: Upper extremities: right upper extremity 4/5 triceps, 4/5 biceps, 4/5 shoulder. Left upper extremity presents at 4+/5 shoulder. Lower extremities: right hip flexion presents 4-/5, right hamstrings 4/5, 3+/5 right anterior tibialis, 2/5 right ankle eversion. Left lower extremity within normal limits. Grip strength: patient with decreased right grip strength versus left; this was not specifically tested this date.

Sensation: The patient presents with intact upper and lower extremity proprioception and kinesthesia tactile sense with all movements.

Balance and Posture: Patient with good sitting dynamic and challenged sitting balance. Standing balance with the following deficits: patient with decreased posterior balance with challenged activities and dynamically reaching posteriorly. Patient routinely loses his balance posteriorly with reaching activities and with challenged activities. Patient also noted with minimal hip and ankle strategies as well as slow stepping strategies noted with challenged and dynamic standing activities.

000021

Page 2

() INPATIENT (X) OUTPATIENT

Attachment <u>Pagy 9 of</u> CFSAN ARMS PROJECT 13266 3/5/99 GJH

Sensory Interaction and Standing Balance: The patient is without vestibular complaints with the following testing. Eyes open on firm surface: patient is able to hold 30 seconds with bilateral lower extremities in standing without loss of balance noted. With single leg stance the patient is able to hold for 5 seconds on left and right lower extremity without loss of balance. Eyes closed on firm surface: patient is able to hold for 15 seconds with bilateral lower extremities in stance with increased mediclateral sway and decreased right lower extremity weightbearing noted. Upon single leg stance the patient on right lower extremity for 5 seconds and left lower extremity for 2 seconds without loss of balance. Eyes open on foam surface: patient is able to double leg stance for 10 seconds with increased posterior balance deviations noted. Patient only with 2 seconds with left lower extremity single leg stance noted with significant loss of balance. Eyes closed on foam surface: patient is unable to perform double leg and single leg stance.

Mobility: The patient demonstrates independence with all rolling and scooting in bed. The patient is noted with increased difficulty scooting supine versus rolling.

Transfers: The patient is independent with sit to stand and stand pivot transfers. With advanced transfers, the patient requires contact guard to minimum assistance of one for balance.

Ambulation: Patient utilizes a left straight cane and ambulates with standby assistance on level surfaces with the following gait deviations: decreased right knee range of motion, decreased right heel contact with increased foot drop noted with fatigue, and decreased right step length noted versus left. The patient occasionally increases right toe drag with increased fatigue. With quick steps the patient does not have any loss of balance. With quick turns the patient with occasional posterior loss of balance in four out of five attempts. With horizontal head movement the patient presents with increased gait deviations including toe drag and posterior deviating balance.

#### PHYSICAL THERAPY ASSESSMENT:

Behavioral Observations: Patient with a flat affect for 90% of the treatment session.

Strengths: The patient with memory and cognition as well as concentration strengths noted.

Weaknesses: 1) Decreased right lower extremity motor control greater than left lower extremity. 2) Patient with increased balance deficits upon standing and high level mobility. 3) Decreased independence with gait and increased reliance on cane or assistive device. 4) Increased gait deviations.

000022

Page 3



Evaluation Date: 01/06/99

() INPATIENT (X) OUTPATIENT

SHORT TERM GOALS: Please refer to the most recent physical therapy treatment records for short term goals.

LONG TERM GOALS: Maximize patient's functional independence, mobility, and safety, to return to prior activities including independent living.

PHYSICAL THERAPY RECOMMENDATIONS AND PLAN: Physical therapy plans to see the patient up to five times a week to increased independent mobility, balance, bilateral lower extremity motor control and safety with activities of daily living and mobility in the department and in the community.

d 01/06/99 t 01/07/99

cc: Business Office Clinician's File

MD

Date: 1/6/99

Attachment Page/9 of CFSAN ARMS PROJECT 13266 3/5/99 GJH

OCCUPATIONAL THERAPY REQUEST FOR	RM
Date: 12-22-98	
Patient's Nam	Age 19
Patient's Address	1
Phone	Medical Record Number
Does patient have transportation? X Yes No	Type of Insurance
Physician Ar.  Diagnosis/Condition Requiring Treatment  5/p	Attachment 7 Page of CFSAN ARMS PROJECT 13266 3/5/99 GJH
Precautions:	
ASSESSMENTS:  Assessment for Adaptive Equipment Environmental Assessment Evaluation For Treatment Recommendations With Report	☐ Orthotic Evaluation ☐ Pre-Driving Evaluation
TREATMENT:  Activities of Daily Living (ADL) Training Homemaking Skills Training Vision/Sensory/Perceptual Treatment Cognitive Skills Training Joint Protection Techniques Work Simplification/Energy Conservation Family/Caregiver Education & Training	Range of Motion to  Muscle Strengthening to BUE's  Dexterity and Coordination  Work Tolerance Training  Facilitation Techniques  Sitting, Standing Balance Training  Transfer Training
☐ Home Program Planning	<ul><li>☐ Wheelchair Skills Training</li><li>☐ Psychosocial Skills Training</li></ul>
OTHER:  Adaptive Equipment  Inhibitory Casting to	
Additional Information: Any questions, p	lease feel free to contact
	000024
	Al = / v c ·
Frequency: 3x week	Duration: $\frac{\sqrt{-6} \text{ wKs}^{-1}}{}$
Physician's Signature:	
Physician's Name (prim	1 Dr.

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	PATIENT NAME:			MEDICAL RECORD NO.	
	DESCRIPTION OF HO	SEITAL COURSE/DATE	S OF INVASIVE PROCEDU	personal transferred to	
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2/08/99 2	BIRTHDATE	MEDICAL RECORD NUMBER	REF:	
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MCV		93.8	FL	80 - 94
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CALCIUM		9.9	MG/DL MEQ/L	135 - 145
SODIUM	• •	144 4.2	MEQ/L	3.8 - 5.1
POTASSIUM CHLORIDE		108	MEQ/L	99 - 112
CO2		30	MEQ/L	23 - 33
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